

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1-35 (Cancelled)

Claim 36. (Previously Presented) An apparatus for recording digital data on a recording medium in synchronism with pre-recorded address data, said apparatus comprising:

recording signal generating means for generating recording signals to be recorded on said recording medium, wherein

said recording signal generating means detects an area in said recording medium where at least a portion of said address data is recorded upon conversion in accordance with a pre-set conversion rule and said recording signal generating means decodes the converted address data pre-recorded in said area to generate said recording signals in accordance with the decoded address data.

Claim 37. (Previously Presented) The recording apparatus according to claim 36 further comprising:

data generating means for generating said digital data, wherein

said recording signal generating means includes:

address reproducing means for reproducing said address data

from a signal read out from said recording medium;

address conversion area readout means for detecting and reading out an area of said recording medium where there is recorded the address data converted from the signal read out from the recording medium in accordance with said pre-set conversion rule;

address decoding means for decoding address data reproduced by said address reproducing means; and

address comparator means for comparing the address data of said digital data generated by said data generating means to address data decoded by said address decoding means.

Claim 38. (Previously Presented) The recording apparatus according to claim 37 wherein

when the address data reproduced by said address reproducing means is derived from the area of said recording medium where the address data is recorded upon conversion based on said pre-set conversion rule, said address decodes means decoding the address data reproduced by said address reproducing means in accordance with the pre-set conversion rule.

Claim 39. (Previously Presented) The recording apparatus according to claim 37 wherein

when, as a result of a comparison by said address comparator means, address data of digital data generated by said data

generating means is verified to correspond to address data decoded by said address decoding means, said recording signal generating means generates said recording signal.

Claim 40. (Previously Presented) The recording apparatus according to claim 36 wherein

said pre-set conversion rule is to record said address data in a decrementing order.

Claims 41-44. (Cancelled)

Claim 45 (Original) The recording apparatus according to claim 36 wherein

said address data are recorded as pre-pits on said master disc.

Claim 46. (Original) The recording apparatus according to claim 36 wherein

said address data are recorded as embossed marks on said master disc.

Claim 47. (Original) The recording apparatus according to claim 39 wherein

said address data are pre-recorded by wobbling a groove formed on said master disc.

Claim 48. (Original) The recording apparatus according to claim 36 wherein

said recording signal generating means 8-16 modulates said digital data and encodes the modulated data by a product code.

Claim 49. (Previously Presented) A method for recording digital data on a recording medium in synchronism with pre-recorded address data, said method comprising the steps of:

detecting an area of said recording medium where at least a portion of said address data is recorded upon conversion in accordance with a pre-set conversion rule;

decoding the converted address data pre-recorded in said area;  
and

generating recording signals to be recorded on said recording medium in accordance with decoded address data.

Claim 50. (Previously Presented) The recording method according to claim 49 further comprising the steps of:

generating said digital data, reproducing said address data from a signal read out from said recording medium, detecting and reading out the area of said recording medium where said address data converted in accordance with said pre-set conversion rule are recorded, decoding the reproduced address data and comparing the address data of the generated digital data to the decoded address

data.

Claim 51. (Previously Presented) The recording method according to claim 50 wherein, when the reproduced address data is from an area of said recording medium where the address data is recorded upon conversion in accordance with said pre-set conversion rule, the reproduced address data is decoded in accordance with said pre-set conversion rule.

Claim 52. (Previously Presented) The recording method according to claim 50 wherein

when, as a result of comparison, the generated address data is verified to correspond to decoded address data, said recording signal is generated.

Claims 53-57. (Cancelled)

Claim 58 (Original) The recording method according to claim 49 wherein

said address data are recorded as pre-pits on said recording medium.

Claim 59. (Original) The recording method according to claim 49 wherein

said address data are recorded as embossed marks on said recording medium.

Claim 60. (Original) The recording method according to claim 49 wherein

said address data are pre-recorded by wobbling a groove formed on said recording medium.

Claim 61. (Previously Presented) The recording method according to claim 49 wherein

said digital data is recorded using said recording medium on 8-16 modulation and encoding by a product code.

Claims 62-70. (Cancelled)